ESRL Physical Sciences Laboratory Review

Organization Overview,
Physical Sciences Research,
Priority Setting



Dr. Alexander E. MacDonald

Director, Earth System Research Laboratory

DAA for Laboratories & Cooperative Institutes

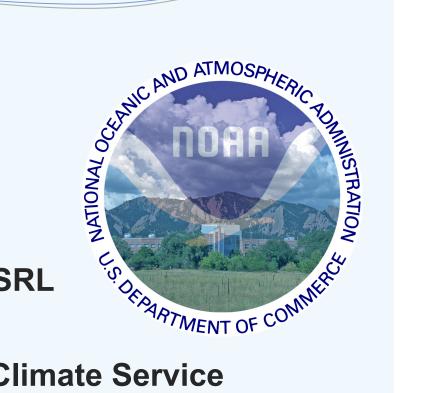
March 9-12, 2010



Talk Overview

ESRL - Organizational Overview
 ESRL Role within NOAA & OAR

- ESRL Mission, Approach
- Physical Science Research at ESRL
 Major Foci Major Drivers



Charting Our Way in the NOAA Climate Service



Who We Are

NOAA's Mission Line Offices

Oceanic & Atmospheric
Research

National Marine Fisheries Service

National Weather Service

National Environmental Satellite, Data & Information Service

National Ocean Service

Program Planning & Integration

Oceanic & Atmospheric Research

Assistant Administrator

Richard Spinrad

Deputy Assistant Administrator, Labs & Cooperative Institutes; Director, Earth Systems Research Lab

Alexander MacDonald

Deputy Assistant Administrator, Programs & Administration

Craig McLean

Earth System Research Laboratory

Atlantic Oceanographic & Meteorological Laboratory

Pacific Marine Environmental Laboratory

Geophysical Fluid Dynamics Laboratory Air Resources Laboratory

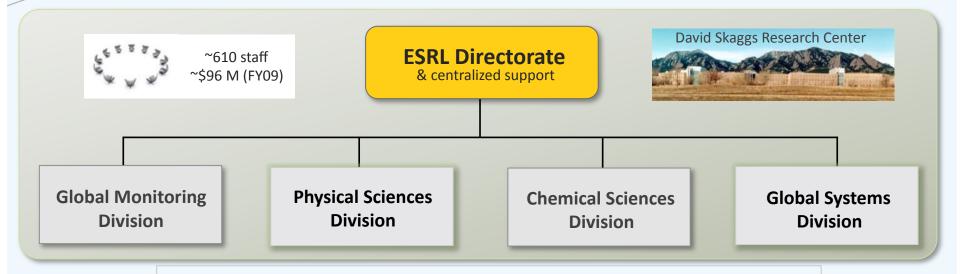
Great Lakes Environmental Research Laboratory

> National Severe Storms Laboratory





Overview & Mission



Cooperative Institute for Research in Environmental Sciences (CIRES)
Cooperative Institute for Research in the Atmosphere (CIRA)

ESRL Mission

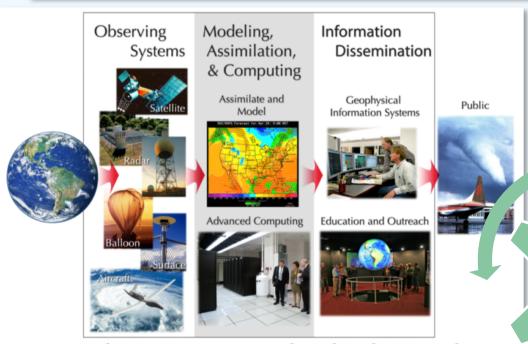
To observe & understand the Earth system & to develop products through a commitment to research that will advance NOAA's environmental information & service on global-to-local scales





Approach

Comprehensive approach provides for 'end-to-end' science that supports NOAA's operational & information service missions in weather & climate



Transferring science and technology to the Nation's weather and climate services

Forecasts, Assessments, Products, Services

Modeling, Development, Process Studies

Observations, Instruments, Data





Drivers & Priorities

Major Drivers:

- NOAA Strategic Plan
- NOAA Research Plan
- NOAA Next Generation Strategic Plan
- National Programs
- U.S. Legislation
- Interagency Agreements
- International Agreements



You will hear more details over the next two days...





Partnerships

The complexity of today's issues means 'no one can do it all'
- the ability to partner is of critical value -

- Cooperative Institutes CIRES, CIRA, CIFAR, ...
- Other OAR Labs & Programs ESRL (GMD, CSD), Climate Program Office, NSSL, PMEL, AOML, ARL, GFDL, ...
- Other NOAA Line Offices NWS, NESDIS, NMFS, NOS
- Other U.S. Agencies FAA ,NASA, DOE, EPA, NSF, DOI, ...
- Academia Many longstanding & productive partnerships!
- Private Industry Aerospace/aviation, weather enterprise, museums, ...
- International Australia Bureau of Meteorology, Taiwan Central Weather Bureau, Finnish Meteorological Institute, Roshydromet, Environment Canada, Korean Meteorological Administration, ...

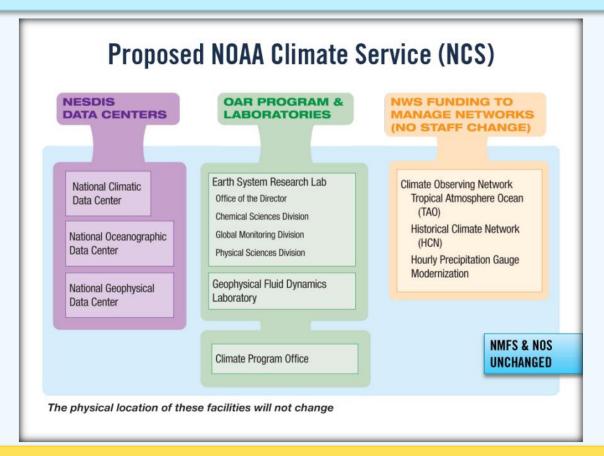
Specifics will be given in the talks to come...





Charting the Future

Providing the Nation with Climate & Weather Services



More will be discussed in our closing remarks ...





Welcome

